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United States Department of Agriculture

Soil Conservation Service

Salt Lake City, Utah

Utah Water Supply Outlook

COMPLETED 22

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January 1, 1986

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Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 11012 Avenue S.W., Calgary, Alberta, T3C 1A6.

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Utah
Water Supply Outlook

and

Federal – State – Private Cooperative Snow Surveys

Issued by

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Chief
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Washington, D. C.

Released by

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State Conservationist
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In cooperation with

Utah State Department of Natural Resources

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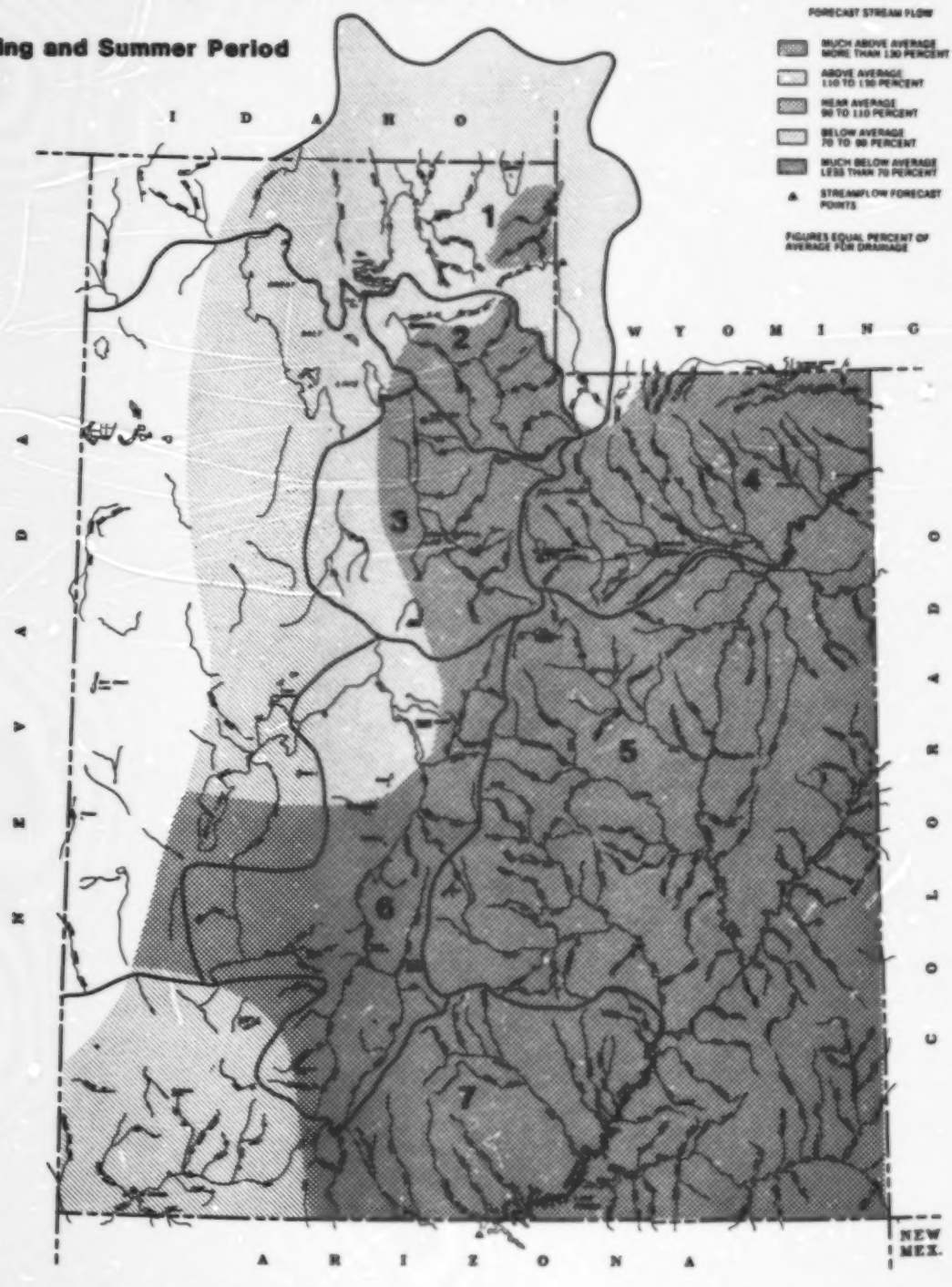
Streamflow Prospects for Utah

Spring and Summer Period


FORECAST STREAM FLOW
MUCH ABOVE AVERAGE MORE THAN 130 PERCENT
ABOVE AVERAGE 110 TO 130 PERCENT
NEAR AVERAGE 90 TO 110 PERCENT
BELOW AVERAGE 70 TO 90 PERCENT
MUCH BELOW AVERAGE LESS THAN 70 PERCENT
STREAMFLOW FORECAST POINTS
FIGURES EQUAL PERCENT OF AVERAGE FOR DRAINAGE
I D A H O
W Y O M I N G
N E V A D A
C O L O R A D O
A R I Z O N A
NEW MEX.
1
2
3
4
5
6
7

1 BEAR RIVER BASIN
2 WEBER & OGDEN WATERSHEDS IN UTAH
3 UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
4 UNITAH BASIN & DAGGET SCD'S
5 CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO.
6 SEVIER & BEAVER RIVER BASINS
7 E. GARFIELD, KANE, WASHINGTON, & IRON CO.

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GENERAL OUTLOOK

SUMMARY:

Excellent water supplies are forecasted for this season with the heavy fall precipitation and early snowfalls. Saturated mountain soil profiles and current snowpacks ranging from normal to twice normal support forecasts of spring and summer streamflows of the same magnitude

SNOWPACK:

Snowpack on all watersheds of the state which were surveyed was greater than normal for January 1. Southwestern Utah, compared to average, had the least snow with 114% while the Uinta Mountains came in at an impressive 174%.

PRECIPITATION:

Precipitation at mountain stations was well above average over the entire State for the October through December period ranging from 121% in the southwest to 163% over the Uinta Mountains.

RESERVOIRS:

Storage in 26 of the major reservoirs in Utah as of the end of December was at 134% of average for that date. Carryover was very good again this year in most reservoirs in the state.

STREAMFLOW:

Water supply forecasts throughout the state are near to much above average ranging from 90% for South Willow Creek near Grantsville to more than three times average on the Sevier.

Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.

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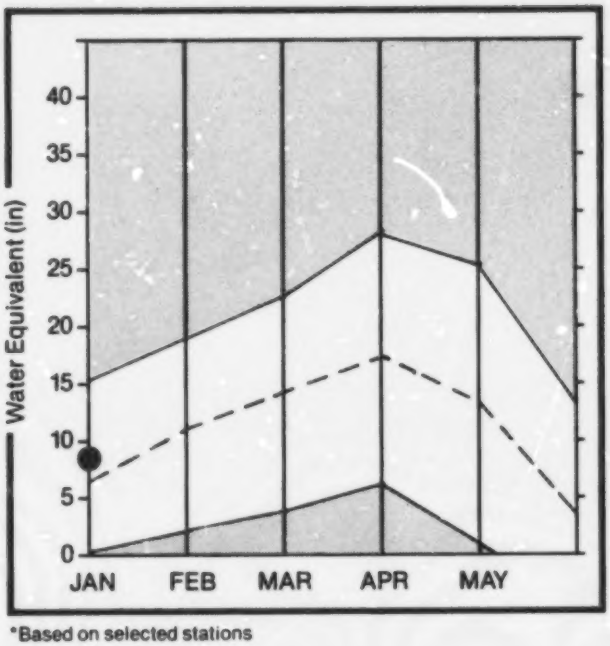
Bear River Basin

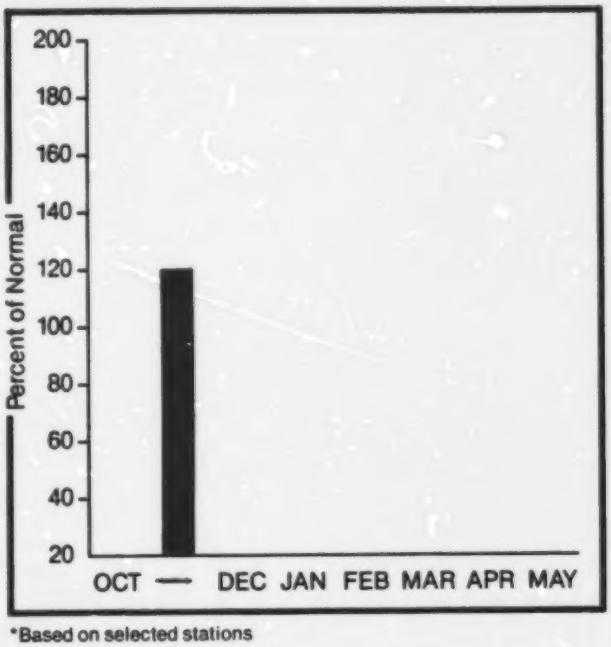
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Bear River Watershed stands at 134% of the January 1 average. Snowpack on the Logan River is 131% of normal for this time of year. Streamflow forecasts range from 102% for Smith's Fork near Border to 137% for Big Creek near Randolph. Seasonal precipitation (October through December) is at 121% of average. Reservoir storage ranges from 103% of average in Hyrum Reservoir to 221% in Porcupine Reservoir.

For more information contact your local Soil Conservation Service office:

Tremonton Field Office	801-257-5403
Logan Field Office	801-753-5616

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BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAR RIVER near UT-WY Stateline	APR-JUL	[illegible]	[illegible]	[illegible]	145.5	82.7	1700			
BEAR near Woodruff	APR-JUL	[illegible]	[illegible]	[illegible]	164.0	53.2				
WOODRUFF CREEK near Woodruff	APR-JUL	[illegible]	[illegible]	[illegible]	138.7	80.9	271			
BIG CREEK near Randolph	APR-JUL	[illegible]	[illegible]	[illegible]	188.7	75.5	60			
BEAR near Randolph	APR-JUL	[illegible]	[illegible]	[illegible]	197.3	62.7				
THOMAS FORK near Stateline	APR-SEP	[illegible]	[illegible]	[illegible]	131.4	74.3				
SMITHS FORK near Border	APR-SEP	[illegible]	[illegible]	[illegible]	130.3	74.8				
BEAR RIVER near Harer	APR-SEP	[illegible]	[illegible]	[illegible]	145.8	71.0				
LOGAN RIVER near Logan	APR-JUL	[illegible]	[illegible]	[illegible]	145.7	89.7	1140			
BLACKSMITH FORK near Hyrum	APR-JUL	[illegible]	[illegible]	[illegible]	164.7	68.6				
LITTLE BEAR RIVER near Paradise	APR-JUN	[illegible]	[illegible]	[illegible]	178.9	63.2	520			
CUB RIVER near Preston	APR-JUL	[illegible]	[illegible]	[illegible]	175.1	66.2				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
BEAR LAKE	1421.0	[illegible]	[illegible]	[illegible]
HYRUM	15.3	[illegible]	[illegible]	[illegible]
PORCUPINE	11.3	[illegible]	[illegible]	[illegible]
WOODRUFF NARROWS		[illegible]		
WOODRUFF CREEK		[illegible]		

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES MEA.D	THIS YEAR AS % OF LAST YR.	AVERAGE
BEAR RIVER, UPPER IN UTAH	5	[illegible]	[illegible]
BEAR RIVER, LOWER IN UTAH	10	[illegible]	[illegible]
BEAR RIVER DRAINAGE IN UT	15	[illegible]	[illegible]
BEAR RIVER, UPPER (above	11	[illegible]	[illegible]
BEAR RIVER, LOWER (below	13	[illegible]	[illegible]
BEAR RIVER DRAINAGE	23	[illegible]	[illegible]
LOGAN RIVER	5	[illegible]	[illegible]
PART RIVER	0	[illegible]	[illegible]
BEAR RIVER BASIN	27	[illegible]	[illegible]

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

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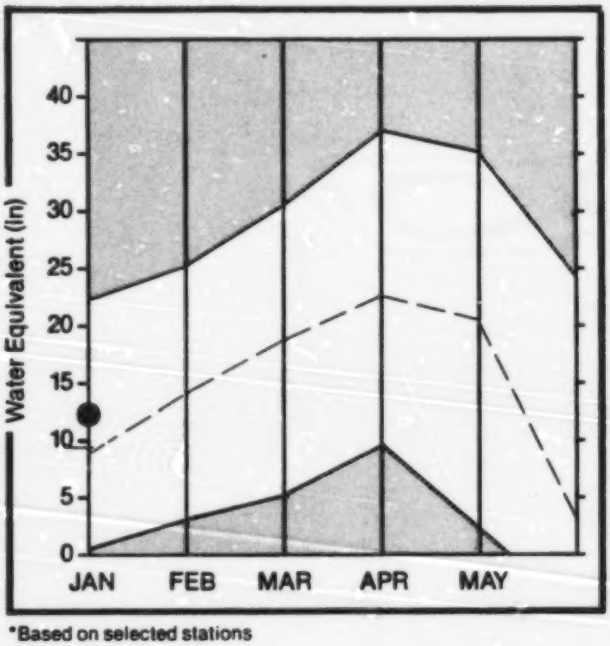
Weber & Ogden Watersheds

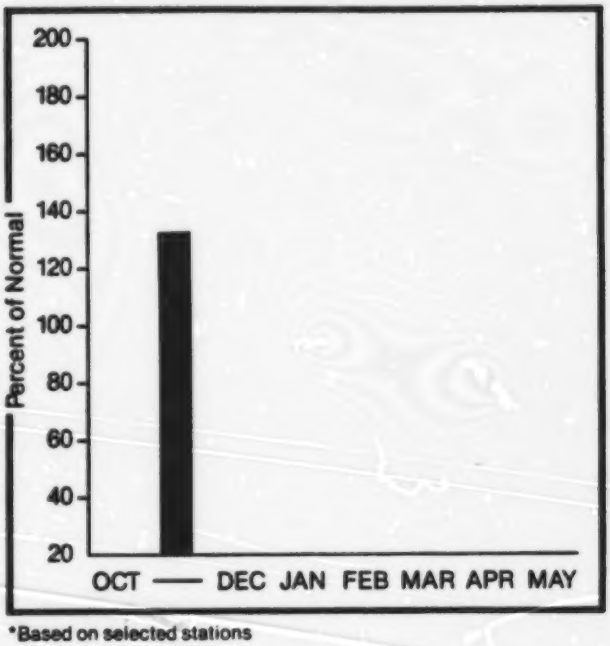
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Weber River Watershed is 145% of the January 1 average. Ogden River snowpack is 154% of normal. Streamflow forecasts range from 121% of average for Pineview Reservoir Inflow to 160% for Chalk Creek near Coalville. Precipitation for the October through December period averaged 133% of normal across the basin. Reservoir storage as of the end of December stood at 136% of average and 78% of total usable capacity.

For more information contact your local Soil Conservation Service office:
Layton Sub Office 801-544-9144

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WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WEBER RIVER near Oakley	APR-JUN	102.0	142.0	139.0	176.5	105.9	2002			
ROCKPORT RESERVOIR inflow	APR-JUN	111.0	163.0	146.0	198.2	100.9				
CHALK CREEK near Coalville	APR-JUN	36.0	58.0	160.0	211.0	125.0	860			
WEBER RIVER near Coalville	APR-JUN	119.0	177.0	148.0	195.8	110.9				
LOST CREEK near Croyden	APR-JUN	15.6	20.7	132.0	198.7	70.5				
EAST CANYON CREEK near Morgan	APR-JUN	25.0	32.0	128.0	184.0	80.0				
HARDSCRABBLE CREEK near Porterville	APR-JUL	18.4	24.0	130.0	206.5	54.3				
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	57.0	70.0	122.0	157.9	82.5				
PINEVIEW RESERVOIR inflow	APR-JUN	115.0	140.0	121.0	150.4	86.1				
ECHO RESERVOIR inflow	APR-JUN	165.0	218.0	130.0	197.0	112.0				
WEBER RIVER at Gateway	APR-JUN	300.0	415.0	140.0	177.0	105.0				
FARMINGTON CREEK near Farmington	APR-JUL	9.7	10.0	121.0	195.1	48.8				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
CAUSEY	6.9	6.7	5.2	2.5
EAST CANYON	48.1	41.0	36.4	33.3
ECHO	73.9	57.0	47.0	41.9
LOST CREEK	20.0	15.7	14.9	11.7
PINEVIEW	110.1	68.9	74.0	59.6
ROCKPORT	60.9	36.5	40.0	34.1
WILLARD BAY	165.5	155.1	148.2	104.9

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
OGDEN RIVER	4	75	134
WEBER RIVER	13	81	143
WEBER & OGDEN WATERSHEDS	17	81	140

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

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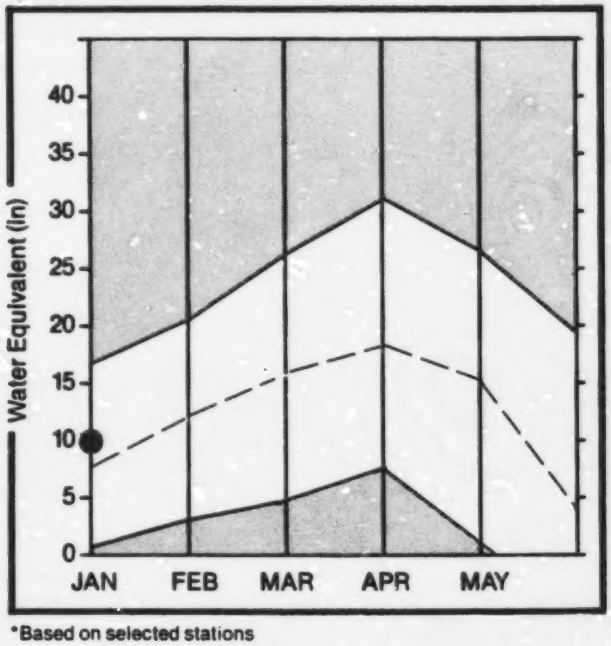
Utah Lake, Jordan River & Tooele Valley

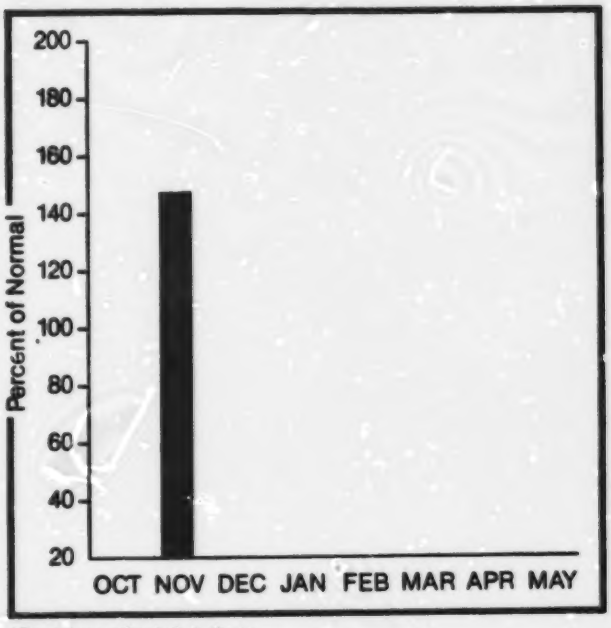
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Provo River is 152% of normal for the first of January. Snowpack for the entire Utah Lake drainage is 134% of average. The drainages along the Wasatch front east of Salt Lake Valley have 124% of normal snowpack. Streamflow forecasts range from near normal in Tooele County to more than twice normal on Emigration Creek near Salt Lake City. Mountain precipitation totals for October through December were 148% of average. Reservoir storage is 148% of average.

For more information contact your local Soil Conservation Service office:

Midvale Field Office	801-524-4373
Provo Field Office	801-377-5580

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UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	PERS. MAX. (% AVE.)	PERS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
PROVO near Hailstone	APR-JUL	[illegible]	[illegible]	[illegible]	179.9	98.1				
PROVO below Deer Creek Dam	APR-JUL	[illegible]	[illegible]	[illegible]	184.7	95.8				
AMERICAN FORK near American Fk.	APR-JUL	[illegible]	[illegible]	[illegible]	242.0	58.6				
HOBBLE CREEK near Springville	APR-JUL	[illegible]	[illegible]	[illegible]	273.0	64.0				
STRAWBERRY RESERVOIR inflow	APR-JUL	[illegible]	[illegible]	[illegible]	194.3	178.3				
PAYSON CREEK near Payson	APR-JUL	[illegible]	[illegible]	[illegible]	250.0	41.0				
UTAH LAKE inflow	APR-JUL	[illegible]	[illegible]	[illegible]	229.4	178.6				
LITTLE COTTONWOOD CRK near SLC	APR-JUL	[illegible]	[illegible]	[illegible]	144.7	100.0				
BIG COTTONWOOD CRK near SLC	APR-JUL	[illegible]	[illegible]	[illegible]	151.4	116.2				
PARLEY'S CEEK near SLC	APR-JUL	[illegible]	[illegible]	[illegible]	182.4	108.1				
MILL CREEK near SLC	APR-JUL	[illegible]	[illegible]	[illegible]	206.9	103.4				
EMIGRATION CREEK near SLC	APR-JUL	[illegible]	[illegible]	[illegible]	414.2	100.0				
CITY CREEK near SLC	APR-JUL	[illegible]	[illegible]	[illegible]	243.9	59.6				
SETTLEMENT CREEK near Tooele	APR-JUL	[illegible]	[illegible]	[illegible]	143.0	57.0				
SOUTH WILLOW CREEK near Grantsville	APR-JUL	[illegible]	[illegible]	[illegible]	166.7	33.3				
VERNON CREEK near Vernon	APR-JUN	[illegible]	[illegible]	[illegible]	183.9	56.0				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
DEER CREEK	149.7	[illegible]	[illegible]	[illegible]
SETTLEMENT CREEK	1.0	[illegible]	[illegible]	[illegible]
STRAWBERRY-ENLARGED	951.4	[illegible]	[illegible]	[illegible]
UTAH LAKE	883.9	[illegible]	[illegible]	[illegible]
VERNON CREEK	0.6	[illegible]	[illegible]	[illegible]

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE'D	THIS YEAR AS % OF LAST YR.	AVERAGE
PROVO RIVER & UTAH LAKE	9	[illegible]	[illegible]
PROVO RIVER	4	[illegible]	[illegible]
JORDAN RIVER & GREAT SALT	5	[illegible]	[illegible]
TOOELE VALLEY WATERSHEDS	6	[illegible]	[illegible]
UTAH LAKE, JORDAN RIVER &	14	[illegible]	[illegible]

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

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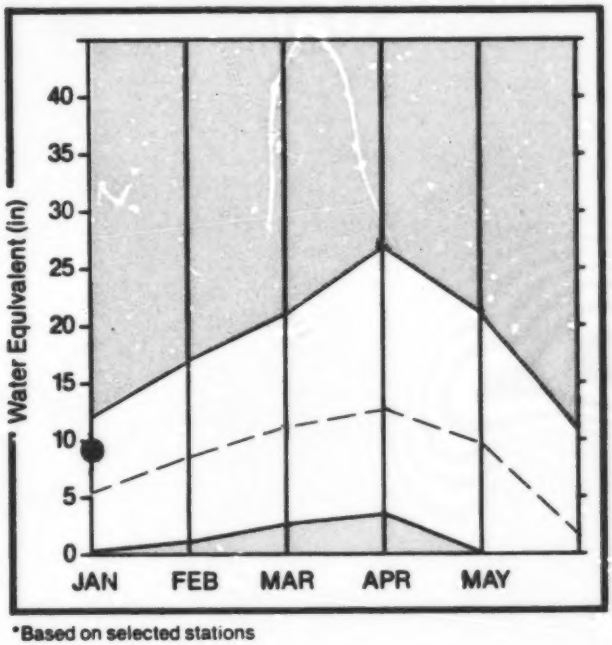
Uintah Basin & Dagget SCD's

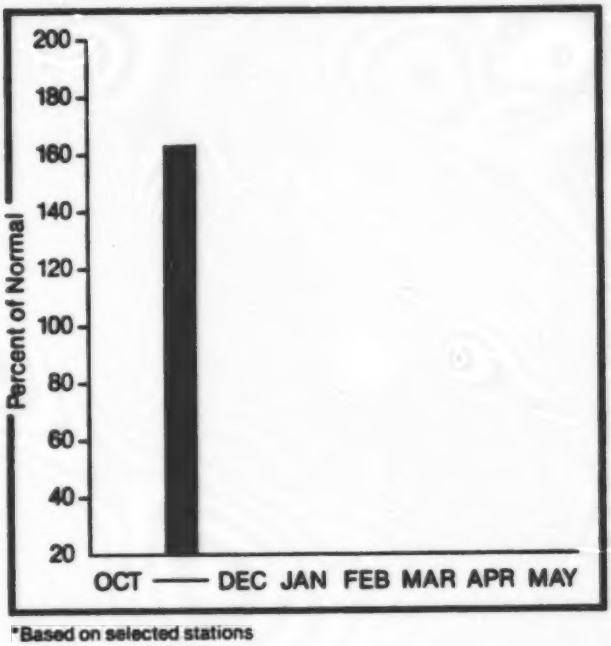
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

January 1 snowpack on drainages in the Uintas was well above average ranging from 133% on Ashley Creek to 224% on Lakefork-Yellowstone Creeks. The ten courses on the Duchesne River averaged 90% above normal. Streamflow forecasts range from 125% for Black's Fork near Millburne to 202% for the Duchesne near Myton. October through December precipitation was 163% of average. Stored water in the reservoirs of the Uintah Basin is 143% of average.

For more information contact your local Soil Conservation Service office:
Roosevelt Field Office 801-722-4621

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UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	PREV. MAX. (% AVE.)	PREV. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
DUCHESNE RIVER near Tabiona	APR-JUL	105.0	150.0	142.0	168.6	111.4				
DUCHESNE RIVER near Duchesne	APR-JUL	189.0	275.0	145.0	176.7	115.3				
STRAWBERRY RIVER at Duchesne	APR-JUL	58.0	95.0	163.0	237.9	89.7	890			
ROCK CREEK near Mountain Home	APR-JUL	93.0	135.0	145.0	179.6	118.3	1980			
CURRANT CREEK near Fruitland	APR-JUL	20.0	31.0	155.0	200.0	110.6				
LAKEFORK RIVER near Mountain Home	APR-JUL	70.0	95.0	135.0	170.0	107.1				
YELLOWSTONE RIVER near Altonah	APR-JUL	65.0	88.0	135.0	176.9	93.9				
DUCHESNE near Myton	APR-JUL	205.0	415.0	202.0	255.4	145.4				
WHITE ROCKS RIVER near Whiterocks	APR-JUL	58.0	88.0	151.0	193.1	110.3				
UINTAH RIVER near Vernal	APR-JUL	86.0	130.0	151.0	173.0	105.0				
DUCHESNE near Randlett	APR-JUL	257.0	500.0	194.0	248.5	129.6				
WEST FORK DUCHESNE RIVER near Hanna	APR-JUL	26.0	37.5	144.0	176.9	107.7				
HENRY'S FORK near Manila	APR-SEP	48.0	67.0	139.0	195.4	104.2				
BLACK'S FORK near Millburne	APR-JUL	90.0	113.0	125.0	200.0	51.1				
FLAMING GORGE RESERVOIR inflow	APR-JUL	1248.0	1560.0	125.0	160.0	98.0				
ASHLEY CREEK near Vernal	APR-JUL	51.0	69.0	135.0	168.6	107.8				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
FLAMING GORGE	3749.0	2117.0	2373.0	—
MOON LAKE	35.8	17.0	14.0	13.6
RED FLEET	26.0	15.0	18.0	—
STEINAKER	33.3	29.0	29.5	18.2
STARVATION	165.3	149.0	128.3	105.7
STRAWBERRY-ENLARGED	951.4	386.0	271.7	—

WATERSHED SNOWPACK ANALYSIS

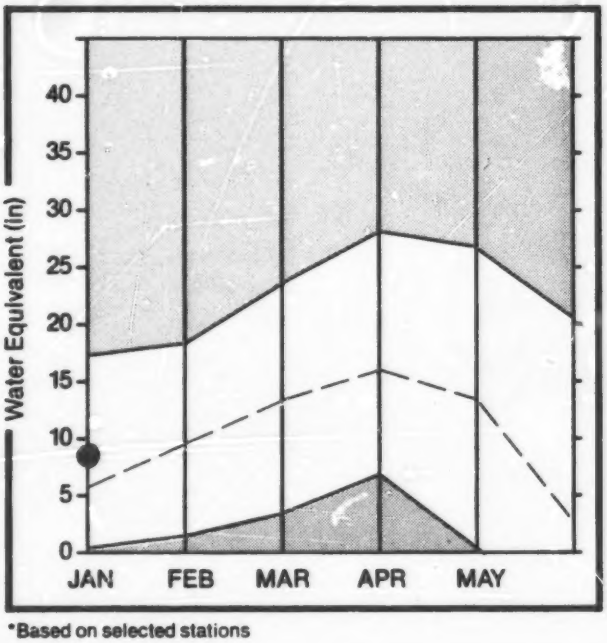
WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER GREEN RIVER in UTAH	8	100	119
ASHLEY CREEK	2	102	128
BLACK'S FORK RIVER	3	104	130
SHEEP CREEK	2	138	157
DUCHESNE RIVER	10	107	134
LAKE FORK-YELLOWSTONE CRE	3	113	124
STRAWBERRY RIVER	4	105	140
UINTAH-WHITEROCKS RIVERS	2	113	124
UINTAH BASIN & DAGGET SCD	19	107	129

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BEST COPY AVAILABLE

Carbon, Emery, Wayne, Grand, and San Juan Co.

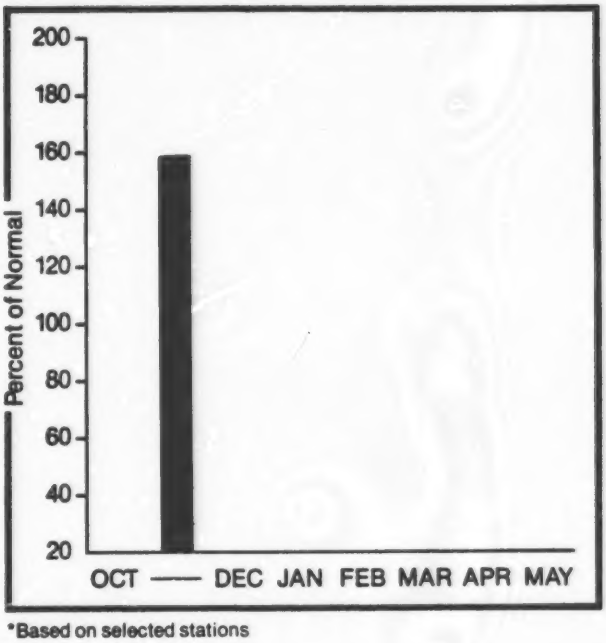
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on Southeastern Utah watersheds ranges from 121% of average on the Blue Mountains to 153% for the San Rafael. Streamflow is forecast 110% for Seven Mile Creek near Fish Lake ranging upward to 156% for Ferron Creek near Ferron. Precipitation at mountain stations for the October through December period was 159% of normal. Reservoir storage stands at 132% of average for the four area reservoirs with an established average ranging from 113% for Joe's Valley to 243% for Millsite.

For more information contact your local Soil Conservation Service office:
Price Field Office 801-637-0041

BEST COPY AVAILABLE

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	PEAK MAX. (% AVE.)	PEAK MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GOOSEBERRY CREEK near Scofield	APR-JUL	[illegible]	[illegible]	[illegible]	222.0	54.0				
SCOFIELD RESERVOIR inflow	APR-JUL	[illegible]	[illegible]	[illegible]	178.9	102.6				
PRICE near Heiner	APR-JUL	[illegible]	[illegible]	[illegible]	256.0	62.0				
HUNTINGTON CREEK near Huntington	APR-JUL	[illegible]	75.0	[illegible]	198.0	118.4				
COTTONWOOD CREEK near Orangeville	APR-JUL	[illegible]	73.0	[illegible]	193.6	117.0				
FERRON CREEK near Ferron	APR-JUL	[illegible]	[illegible]	[illegible]	200.0	113.5	654			
MUDDY CREEK near Emery	APR-JUL	[illegible]	[illegible]	[illegible]	200.0	81.1	223			
COLORADO near Cisco, UT	APR-JUL	[illegible]	[illegible]	[illegible]	209.0	105.0				
GREEN near Green Rv., UT	APR-JUL	[illegible]	[illegible]	[illegible]	168.6	94.6				
MILL CREEK near Moab	APR-JUL	[illegible]	[illegible]	[illegible]	218.2	90.9				
NAVAJO RESERVOIR inflow	APR-JUL	[illegible]	[illegible]	[illegible]	198.8	93.9				
SAN JUAN near Bluff, UT	APR-JUL	[illegible]	[illegible]	[illegible]	198.7	78.7				
SEVEN MILE CREEK near Fish Lake	APR-JUL	[illegible]	[illegible]	[illegible]	169.2	46.2				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
HUNTINGTON NORTH	3.9	[illegible]	[illegible]	2.0
JOE'S VALLEY	54.6	[illegible]	[illegible]	[illegible]
KEN'S LAKE	2.3	[illegible]	[illegible]	---
MILL SITE	10.7	[illegible]	[illegible]	[illegible]
SCOFIELD	65.8	[illegible]	[illegible]	[illegible]

WATERSHED SNOWPACK ANALYSIS

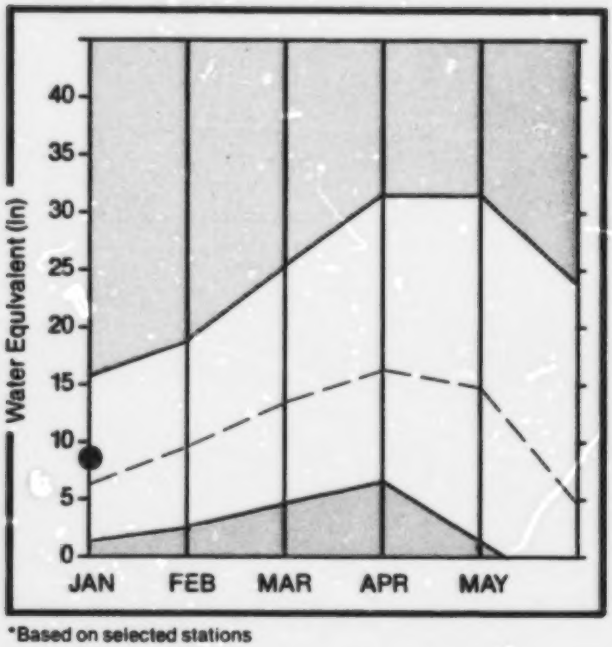
WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
PRICE RIVER	3	[illegible]	[illegible]
SAN RAFAEL RIVER	7	[illegible]	[illegible]
MUDDY RIVER	2	[illegible]	[illegible]
FREMONT RIVER	3	[illegible]	[illegible]
LASAL MOUNTAINS	2	[illegible]	[illegible]
BLUE MOUNTAINS	2	[illegible]	[illegible]
ESCALANTE RIVER	1	[illegible]	[illegible]
VIRGIN RIVER	4	[illegible]	[illegible]
CARBON, EMERY, WAYNE, GRA	24	[illegible]	[illegible]

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BEST COPY AVAILABLE

Sevier & Beaver River Basins

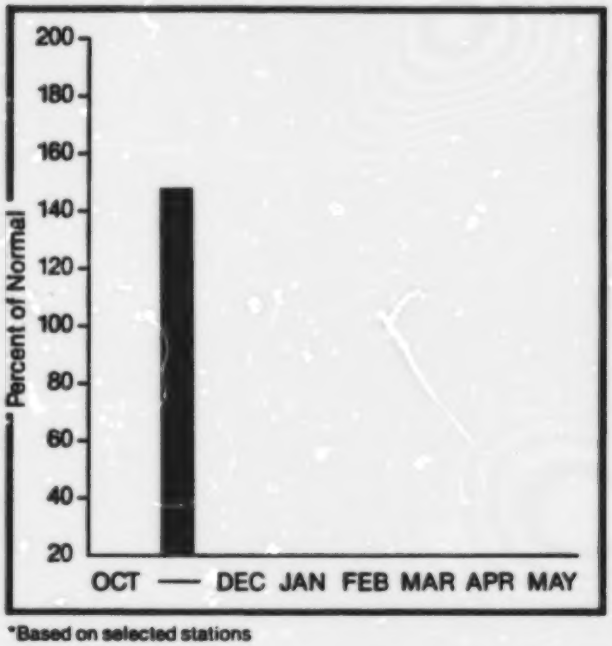
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Sevier River watershed ranges from 125% on the South Fork to 139% on the Lower Sevier. Beaver River snowpack is 189% of normal for January 1. Water supply forecasts on the Sevier range from 131% at Hatch to 346% on the Sigurd to Gunnison reach. The Beaver River is forecast 139% with Minersville Reservoir Inflow forecast 203% . October through December precipitation over the watershed was 151% of normal. Reservoir storage in the Sevier basin is 83% of capacity and 212% of average.

For more information contact your local Soil Conservation Service office:
Richfield Field Office 801-896-6261
Fillmore Field Office 801-743-6655

BEST COPY AVAILABLE

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	MEAS. MAX. (% AVE.)	MEAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SEVIER at Hatch	APR-JUL	[illegible]	[illegible]	[illegible]	187.5	87.5				
SEVIER near Circleville	APR-JUL	[illegible]	[illegible]	[illegible]	268.0	65.0				
SEVIER near Kingston	APR-JUL	[illegible]	[illegible]	[illegible]	255.2	51.7				
ANTIMONY CREEK near Antimony	APR-JUL	[illegible]	[illegible]	[illegible]	182.0	44.0				
E F SEVIER near Kingston	APR-JUL	[illegible]	[illegible]	[illegible]	264.0	106.0				
SEVIER blw Piute Dam	APR-JUL	[illegible]	[illegible]	[illegible]	264.4	80.0				
CLEAR CREEK near Sevier	APR-JUL	[illegible]	[illegible]	[illegible]	225.0	54.6				
SIGURD to GUNNISON	APR-JUL	[illegible]	[illegible]	[illegible]	457.7	285.2				
KINGSTON to VERMILLION DAM	APR-JUL	[illegible]	[illegible]	[illegible]	416.0	100.0				
VERMILLION DAM to GUNNISON	APR-JUL	[illegible]	[illegible]	[illegible]	386.0	117.0				
SALINA CREEK at Salina	APR-JUL	[illegible]	[illegible]	[illegible]	343.0	82.0				
SEVIER to Gunnison	APR-JUL	[illegible]	[illegible]	[illegible]	422.0	114.0				
CHALK CREEK near Fillmore	APR-JUL	[illegible]	[illegible]	[illegible]	176.8	54.9				
CHICKEN CREEK near Levan	APR-JUL	[illegible]	[illegible]	[illegible]	171.4	85.7				
OAK CREEK near Oak City	APR-JUL	[illegible]	[illegible]	[illegible]	187.5	0.0				
EPHRAIM CREEK near Ephraim	APR-JUL	[illegible]	[illegible]	[illegible]	228.0	59.0				
PLEASANT CREEK near Pleasant	APR-JUL	[illegible]	[illegible]	[illegible]	217.0	52.0				
SALT CREEK near Nephi	APR-JUL	[illegible]	[illegible]	[illegible]	207.4	14.8				
BEAVER RIVER near Beaver	APR-JUL	[illegible]	[illegible]	[illegible]	213.0	82.6	347			
NORTH CREEK near Beaver (combined N	APR-JUL	[illegible]	[illegible]	[illegible]	232.9	41.1				
MINERSVILLE RESERVOIR inflow	APR-JUN	[illegible]	[illegible]	[illegible]	280.9	123.6				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
GUNNISON	10.2	[illegible]	[illegible]	[illegible]
MINERSVILLE (RsvFd)	26.0	[illegible]	[illegible]	[illegible]
OTTER CREEK	52.5	[illegible]	[illegible]	[illegible]
PIUTE	71.8	[illegible]	[illegible]	[illegible]
SEVIER BRIDGE	236.0	[illegible]	[illegible]	[illegible]
PANGUITCH LAKE	22.3	[illegible]	[illegible]	[illegible]

WATERSHED SNOWPACK ANALYSIS

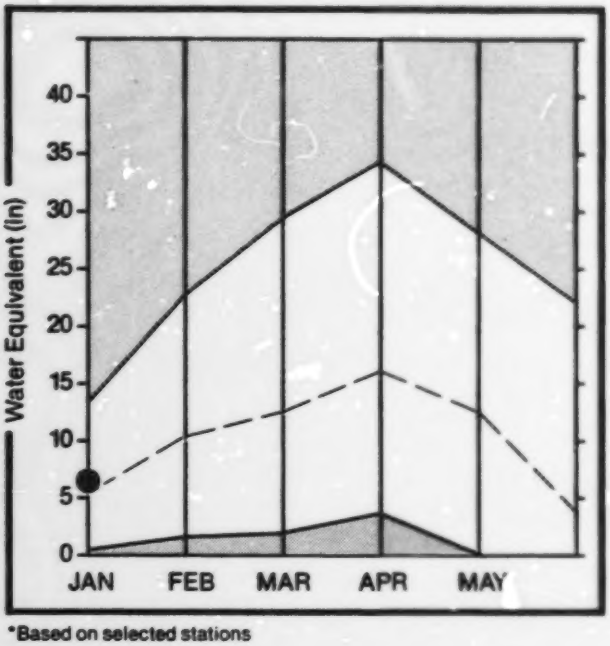
WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER SEVIER RIVER (south	11	[illegible]	[illegible]
EAST FORK SEVIER RIVER	4	[illegible]	[illegible]
SOUTH FORK SEVIER RIVER	7	[illegible]	[illegible]
LOWER SEVIER RIVER (inclu	12	[illegible]	[illegible]
BEAVER RIVER	2	[illegible]	[illegible]
SEVIER & BEAVER RIVER BAS	25	[illegible]	[illegible]

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BEST COPY AVAILABLE

E. Garfield, Kane, Washington, & Iron Co.

Mountain snowpack* (inches)



*Based on selected stations

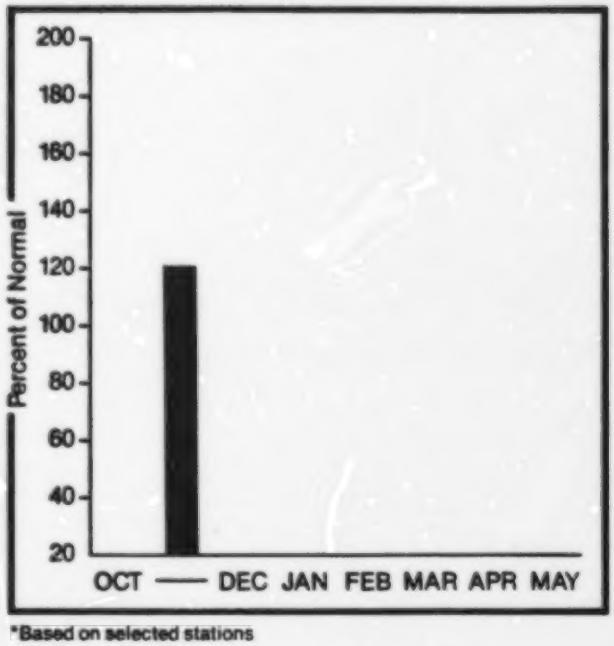
Maximum

Average

Minimum

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on Southwestern Utah watersheds is slightly above average for January 1. Enterprise to New Harmony snowpack is 105% . Snow on the Virgin River is 117% of normal. Water supplies are forecast above average assuming normal snow accumulation for the remainder of the snow season. Forecasts range from 113% for Santa Clara to 145% for the Virgin. Mountain precipitation for October-December was 121% of average.

For more information contact your local Soil Conservation Service office:
Cedar City Field Office 801-586-2429

BEST COPY AVAILABLE

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	MEAS. MAX. (% AVE.)	MEAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
VIRGIN near Hurricane	APR-JUL	[redacted]			195.0	113.0				
SANTA CLARA near Pine Valley	APR-JUL				192.0	46.0				
COAL CREEK near Cedar City	APR-JUL				168.5	87.0				
LAKE POWELL inflow	APR-JUL				192.1	99.0				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
BLUE MESA	830.0	[redacted]		
LAKE POWELL	25002.0			

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
PAROWAN	4	[redacted]	
ENTERPRISE TO NEW HARMONY	2		
COAL CREEK	3		
E. GARFIELD, KANE, WASHIN	9		

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

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Utah Snow Course Measurements

January 1, 1986

SNOWCOURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
ASHLEY TWIN LAKES	10500	Not scheduled this month			-	-
ATWOOD LAKE	10500	01/01	-	9.5	-	-
BEAVER CREEK DIVIDE	8260	12/26	26	7.2	6.9	4.8
BEAVER CREEK R.S.	7500	*			5.5	3.7
BEAVER CREEK-SKUNK	7150	*			9.3	4.8
BEAVER DAMS	8000	12/28	22	6.3	6.0	4.3
BEAVER RACE TRACK	6020	*			-	-
BEN LOMOND PEAK	8000	12/26	63	20.3	26.5	12.6
BEN LOMOND TRAIL	6000	12/26	44	13.9	15.6	5.5
BEVAN'S CABIN	6450	01/02	19	4.8	-	5.5
BIG FLAT	10290	12/31	52	15.0	-	6.6
BIRCH CROSSING	8100	01/06	16	4.0	3.7	3.3
BLACK'S FLAT-U.M. CK	9400	12/28	24	6.5	6.9	4.9
BLACK'S FORK	9200	01/01	-	7.9E	8.1	5.4
BLACK'S FORK GS-EF	9340	12/26	17	4.2	4.3	3.4
BLACK'S FORK JUNCTN	8930	12/26	19	4.5	5.4	3.5
BOX CREEK	9300	12/29	25	6.8	8.2	5.0
BRIAN HEAD	10000	12/30	36	11.2	12.8	8.7
BROWN DUCK RIDGE	10600	12/27	44	13.5	12.5	5.7
BRYCE CANYON	8000	12/30	10	2.5	2.7	2.0
BUCK FLAT	9800	12/28	32	10.0	11.1	6.7
BUCK PASTURE	9700	Not scheduled this month			-	-
BUCKBOARD FLAT	9000	12/19	28	8.0	5.9	7.1
BUG LAKE	7950	12/26	34	10.3	11.1	6.1
BURNT CREEK	7900	*			1.3	2.4
BURT'S-MILLER RANCH	7900	12/26	12	3.6	2.8	2.3
CAMP JACKSON	8600	12/19	30	8.6	8.0	6.6
CASTLE VALLEY	9580	12/31	28	6.1	9.2	6.1
CEDAR CITY GOLF COUR	5800	*			.5	-
CHALK CREEK #1	9100	12/26	48	15.7	14.3	8.8
CHALK CREEK #2	8200	12/26	32	9.1	8.9	6.1
CHALK CREEK #3	7500	12/26	19	4.6	4.9	3.5
CHEPETA	10300	12/27	35	10.1	7.6	-
CHEPETA-WHITERKS. LK	10350	Not scheduled this month			-	-
CLEAR CREEK MEADOWS	9420	"	"	"	14.8	8.0
CLEAR CREEK RIDGE #1	9200	12/27	31	8.7	11.0	7.7
CLEAR CREEK RIDGE #2	8000	12/27	26	6.5	8.4	6.2
CLEAR CREEK RIDGE #3	6600	12/27	19	4.1	5.1	3.5
CUB RIVER R.S.	5450	12/26	20	4.8	5.0	3.5
CURRANT CREEK	8000	12/27	26	7.7	7.7	3.9
DANIELS-STRAWBERRY	8000	12/27	31	10.8	9.3	5.7
DESERET PEAK	9250	Not scheduled this month			-	9.2
DILL'S CAMP	9200	12/28	24	7.2	8.4	5.2
DONKEY RESERVOIR	9800	12/29	16	3.9	-	-
DRY BREAD POND	8350	12/27	26	7.8	12.4	6.8
DRY VALLEY DIVIDE AL	8100	*			7.4	6.7
DUCK CREEK R.S.	8700	01/01	-	5.9E	9.2	5.1
EAST PORTAL	7560	*			8.8	4.8
EAST SHINGLE LAKE	9800	Not scheduled this month			-	-
FARMINGTON CANYON	8000	12/26	51	16.7	21.9	12.6
FARMINGTON CANYON L.	6950	12/26	43	12.4	16.8	9.5
FARNSWORTH LAKE	9600	12/28	30	8.9	10.4	7.9
FISH LAKE	8700	12/29	22	5.2	3.8	3.1
FIVE POINT LAKE	11000	01/01	-	8.4	-	-
FRANKLIN BASIN	8020	12/26	35	11.0	15.9	7.6
G.B.R.C. HEADQUARTER	8700	12/26	32	10.2	9.8	6.8
G.B.R.C. MEADOWS	10000	12/28	39	12.7	14.2	9.0
GARDEN CITY SUMMIT	7600	12/26	32	9.8	11.5	7.3
GEORGE PEAK	9000	Not scheduled this month			-	-
GOOSEBERRY R.S.	8000	12/28	23	6.7	6.7	5.2
GRIZZLY RIDGE	8500	*			4.3	4.3
HARDSCRABBLE	6700	12/26	40	12.5	16.5	-
HARRIS FLAT	7700	12/31	17	3.8	7.4	3.2
HAYDEN FORK	9400	12/26	24	7.1	8.5	5.6
HENRY'S FORK	10000	Not scheduled this month			-	-
HEWINTA G.S.	9500	12/26	19	4.2	4.5	3.5
HOLE-IN-THE-ROCK	9150	12/26	15	3.4	-	2.2
HOLE-IN-THE-ROCK GS	8300	Not scheduled this month			-	-
HICKERSON PARK	9100	12/27	16	3.4	3.0	1.9
HOBBLE CREEK SUMMIT	7420	12/27	30	8.5	9.9	5.9
HORSE RIDGE	8260	12/27	34	10.3	15.0	7.6
HUNTINGTON-HORSESHOE	9800	12/28	38	13.8	13.2	7.9
INDIAN CANYON	9100	12/27	31	7.9	8.0	5.3
JACKSON PARK	10600	*			8.1	2.7
JOHNSON VALLEY	8850	12/29	19	4.9	4.5	2.9
KILFOIL CREEK	7300	12/27	29	7.3	10.2	4.8
KIMBERLY MINE(UPPER)	9300	12/31	26	9.3	9.3	6.0
KING'S CABIN (UPPER)	8730	12/27	21	5.4	5.5	4.4
KLONDIKE NARROWS	7400	12/26	31	9.5	14.0	7.7
KOLOB-CRYSTAL	9250	12/31	34	9.6	-	6.5
LAKEFORK BASIN	11100	01/01	-	10.3	-	-
LAKEFORK MOUNTAIN #1	10200	12/27	29	8.8	6.9	4.2
LAKEFORK MOUNTAIN #3	8400	12/27	19	4.8	4.6	2.2
LANDS CANYON	7400	12/30	32	9.4	12.9	7.4
LASAL MOUNTAIN LOWER	8800	12/10	23	6.6	3.8	4.7
LASAL MOUNTAIN (UPP)	9850	12/10	33	9.2	5.4	6.9
LIGHTNING LAKE	10500	01/01	-	15.3	-	-
LILY LAKE	9050	12/26	31	9.1	9.1	-
LITTLE BEAR (LOWER)	6000	12/26	28	7.6	8.5	3.6

SNOWCOURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
LITTLE BEAR (UPPER)	6550	12/26	32	9.1	9.6	4.2
LITTLE GRASSY CREEK	6100	12/30	3	0.4	5.6	1.2
LONG FLAT	8000	12/30	12	3.6	4.6	2.6
LONG VALLEY JCT.	7500	12/29	14	3.8	6.7	1.9
LOST CREEK RESERVOIR	6130	12/27	17	3.5	4.1	1.9
MAMMOTH-COTTONWOOD	8800	12/28	42	14.3	14.8	8.1
MERCHANT VALLEY (UP)	8750	12/31	38	9.6	7.9	5.2
MIDDLE BEAVER CREEK	8650	Not scheduled this month			-	-
MIDDLE CANYON	7000	01/02	27	4.7	-	5.9
MIDDLE FORK	9600	*			-	-
MIDWAY VALLEY	9800	12/31	34	9.0	15.3	8.3
MILL CREEK	6950	12/31	33	9.7	13.3	7.4
MILL D SOUTH FORK	7400	12/31	29	8.6	13.6	7.8
MONTE CRISTO R.S.	8960	12/26	35	11.2	16.0	9.7
MONTICELLO PARK	7050	*			2.0	1.8
MOSBY MOUNTAIN(LOW)	9500	12/27	27	7.3	6.4	4.2
MT.BALDY R.S.	9500	12/28	43	13.7	13.5	9.1
MUD CREEK #2	8600	12/28	29	7.5	8.4	5.7
OAK CREEK	7760	01/01	28	7.2	6.4	5.0
ONE MILE SUMMIT	7330	Not scheduled this month			-	-
ORANGE OLSEN	7200	*			4.5	1.6
OTTER LAKE	9600	12/31	38	9.9	8.1	5.1
PANGUITCH LAKE	8200	12/31	13	3.6	4.3	2.5
PARADISE PARK	10100	12/27	32	9.8	8.7	5.6
PARK CITY SUMMIT	9300	Not scheduled this month			19.5	14.7
PARLEY'S CANYON SUM.	7500	12/30	33	9.3	12.6	7.7
PAYSON R.S.	8050	01/01	33	8.9	11.9	7.7
PICKLE KEG SPRING	9600	12/28	27	7.8	8.7	6.1
PINE CANYON	8000	12/27	31	9.8	15.1	6.8
PINE CREEK	8800	12/31	34	9.9	9.1	6.8
REDDEN MINE LOWER	8500	12/26	33	10.9	11.9	6.6
RED PINE RIDGE	9200	12/28	27	8.1	11.2	6.7
REES'S FLAT	7300	01/01	30	7.6	8.4	5.6
REYNOLDS PARK	10400	Not scheduled this month			-	-
ROCK CREEK	7900	12/27	24	6.6	7.7	2.2
ROCKY BASIN-SETTLEMT	8900	01/02	35	11.3	-	10.1
SAGEBRUSH FLAT	6300	*			4.8	2.2
SEELEY CREEK R.S.	10000	12/28	31	9.8	13.1	4.7
SERGEANT LAKES	8300	Not scheduled this month			-	-
SHINGLE MILL	6200	12/30	15	3.7	3.3	4.3
SILVER LAKE(BRIGHT.)	8730	12/31	41	12.9	17.3	10.0
SMITH & MOREHOUSE	7600	12/26	27	7.6	9.2	5.3
SNOWBIRD GAD VALLEY	9700	Not scheduled this month			-	11.9
SOAPSTONE R.S.	7800	01/01	-	6.7E	7.2	5.4
SPIRIT LAKE	10300	12/27	27	7.6	5.2	5.1
SQUAW SPRINGS	9300	12/29	20	4.8	4.2	3.1
STEEL CREEK PARK	10100	12/26	36	9.7	8.0	6.3
STEEP HOLLOW #1	8500	*			22.4	13.2
STEEP HOLLOW #2	7700	*			17.4	8.9
STILLWATER CAMP	8550	12/26	21	5.5	5.8	4.0
STRAWBERRY DIVIDE	8400	12/31	44	12.1	11.7	7.9
STUART R.S.	7950	12/28	19	4.1	6.2	3.1
SUSC RANCH	8200	01/06	17	5.0	5.8	3.4
TALL POLES	8800	01/06	28	6.5	8.6	6.0
THISTLE FLAT	8500	Not scheduled this month			-	2.2
TIMPANOGOS DIVIDE	8140	01/01	44	14.0	-	10.4
TONY GROVE LAKE	8400	12/26	52	17.5	22.2	14.2
TONY GROVE R.S.	6250	12/26	25	6.6	8.7	4.6
TRIAL LAKE	9960	12/26	49	15.8	14.0	10.7
TROUT CREEK	9400	12/27	23	6.2	5.9	4.3
UPPER JOES VALLEY	8900	12/28	21	5.3	8.6	4.2
VERNON CREEK	7500	01/07	25	6.2	-	4.0
VIPONT	7670	Not scheduled this month			-	7.2
WEBSTER FLAT	9200	12/31	26	6.5	11.7	6.4
WHITE RIVER #1	8550	12/27	30	8.1	7.6	5.3
WHITE RIVER #3	7400	12/27	21	4.9	5.1	3.8
WIDTSOE-ESCALANTE #3	9500	12/29	23	6.2	7.3	5.0
WILLOW FLAT	6100	12/26	32	9.2	8.8	6.1
WRIGLEY CREEK	9000	12/28	24	6.6	7.4	4.3
YANKEE RESERVOIR	8700	12/30	17	4.0	5.3	4.1

NOTE * These sites have been discontinued during the past summer as a result of the Soil Conservation Service Snow Course Reduction Plan, PHASE-I. These sites have proved to be duplicative in nature.

Black's Fork, Duck Creek R. S., and Soapstone R. S. snow courses have also been discontinued as a result of statistical testing in PHASE-II of the above mentioned plan. For these sites, however, estimates will be produced and published monthly for the next five years.

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United States Department of Agriculture
Soil Conservation Service
P. O. Box 11350
Salt Lake City, UT 84147

January 10, 1986

Users of Snow Survey and Water
Supply Forecast Information

Last April the Utah State Soil Conservation Commission mailed a letter informing you of certain organizational changes planned for the Cooperative Snow Survey Program. Attached to the letter was a questionnaire which solicited your help in providing the information needed to make decisions regarding the future disposition of a portion of the manually measured snow course network in Utah.

Analysis of the returned questionnaires made it possible to identify those snow courses whose elimination would have the least impact on the user. The listing of January 1 snow measurements in the January 1 "Utah Water Supply Outlook Report" has each discontinued snow course identified with an asterisk in the current data section. If you have any comments or questions concerning the elimination of these snow measurements please contact the Snow Survey Staff at the above address or call (801) 524-5213.

Thank you very much for providing input into this important decision making process.

Sincerely,

for W Pruitt, Acting

FRANCIS T. HOLT
State Conservationist

The Soil Conservation Service is an agency of the United States Department of Agriculture

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The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State

Utah State University
Utah State Department of Natural Resources
- Division of Wildlife Resources
- Division of Water Resources
- Division of Water Rights
- Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioners
- Spanish Fork River Commissioner
- Utah Lake and Jordan River Commissioner

Federal

U.S. Department of Agriculture
- Soil Conservation Service
- Forest Service

U.S. Department of Commerce
- NOAA, National Weather Service

U.S. Department of Interior
- Bureau of Reclamation
- Geological Survey
- National Park Service

Municipality

Manti
Salt Lake City

Public

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Central Utah Conservancy District
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber Basin Conservancy District

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

All programs and services of U.S. Dept. of Agriculture are available to everyone without regard to race, creed, color, sex, age, handicap, or national origin.

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